SSO Collection Optimization

Core SSO Team:

[redacted]

Address Books

- Email address books for most major webmail are collected as stand-alone sessions (no content present*)
- Address books are repetitive, large, and metadata-rich
- Data is stored multiple times (MARINA/MAINWAY, PINWALE, CLOUDs)
- Fewer and fewer address books attributable to users, targets
- Address books account for ~ 22% of SSO's major accesses (up from ~ 12% in August)

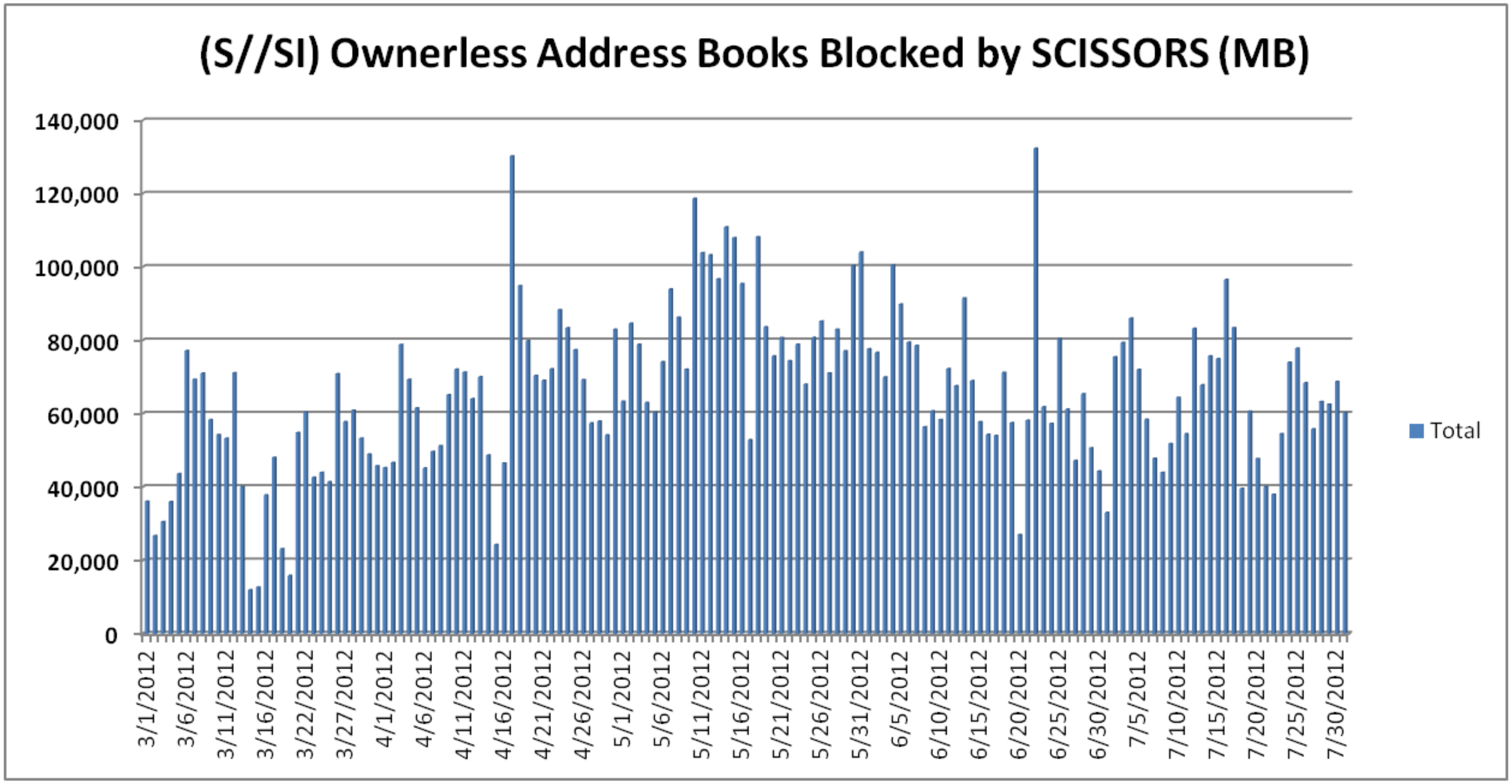
Access (10 Jan 12)	Total Sessions	Address Books
US-3171	1488453	237067 (16% of traffic)
DS-200B	938378	311113 (33% of traffic)
US-3261	94132	2477 (3% of traffic)
US-3145	177663	29336 (16% of traffic)
US-3180	269794	40409 (15% of traffic)
US-3180 (16 Dec 11)	289318	91964 (32% of traffic)
TOTAL	3257738	712366 (22% of traffic)

Provider	Collected	Attributed	Attributed%
Yahoo	444743	11009	2.48%
Hotmail	105068	1115	1.06%
Gmail	33697	2350	6.97%
Facebook	82857	79437	95.87%
Other	22881	1175	5.14%
TOTAL	689246	95086	13.80%

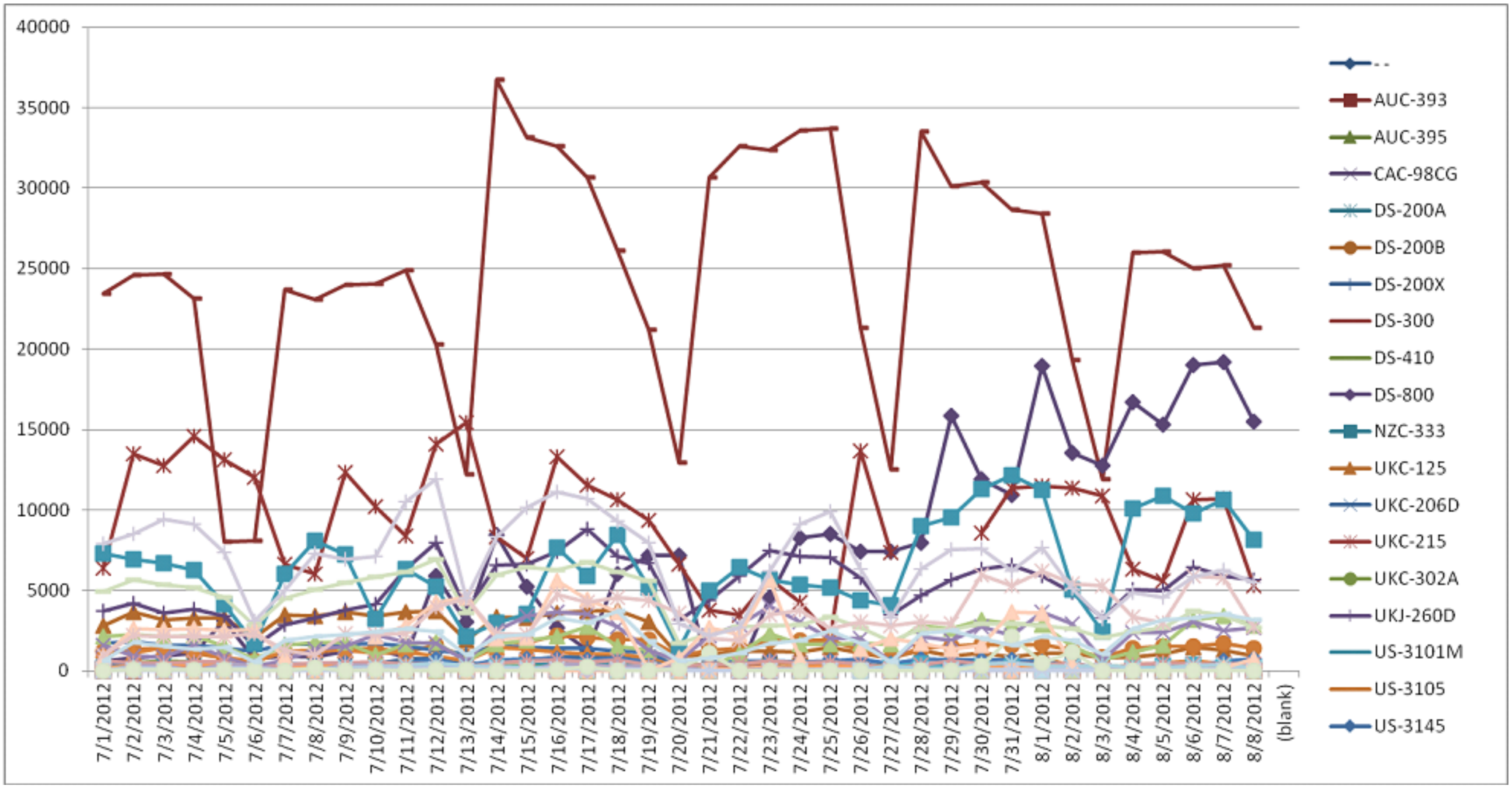
Address Books

- Enabled in SCISSORS for various SSO sites:
  - **JPMQ** (metadata: QMPJ) - DS-200B (MUSCULAR) 29 Feb 2012
  - **DGOT** (metadata: TOGD) - US-3171 (DANCINGOASIS) 13 Mar 2012
  - **DGOD** (metadata: DOGD) - US-3171 (DANCINGOASIS) 13 Mar 2012
  - **SPNN** (metadata: NNPS) - US-3180 (SPINNERET) 03 May 2012
  - **EGLP** (metadata: PLGE) - US-3145 (MOONLIGHTPATH) 08 May 2012

Address Books

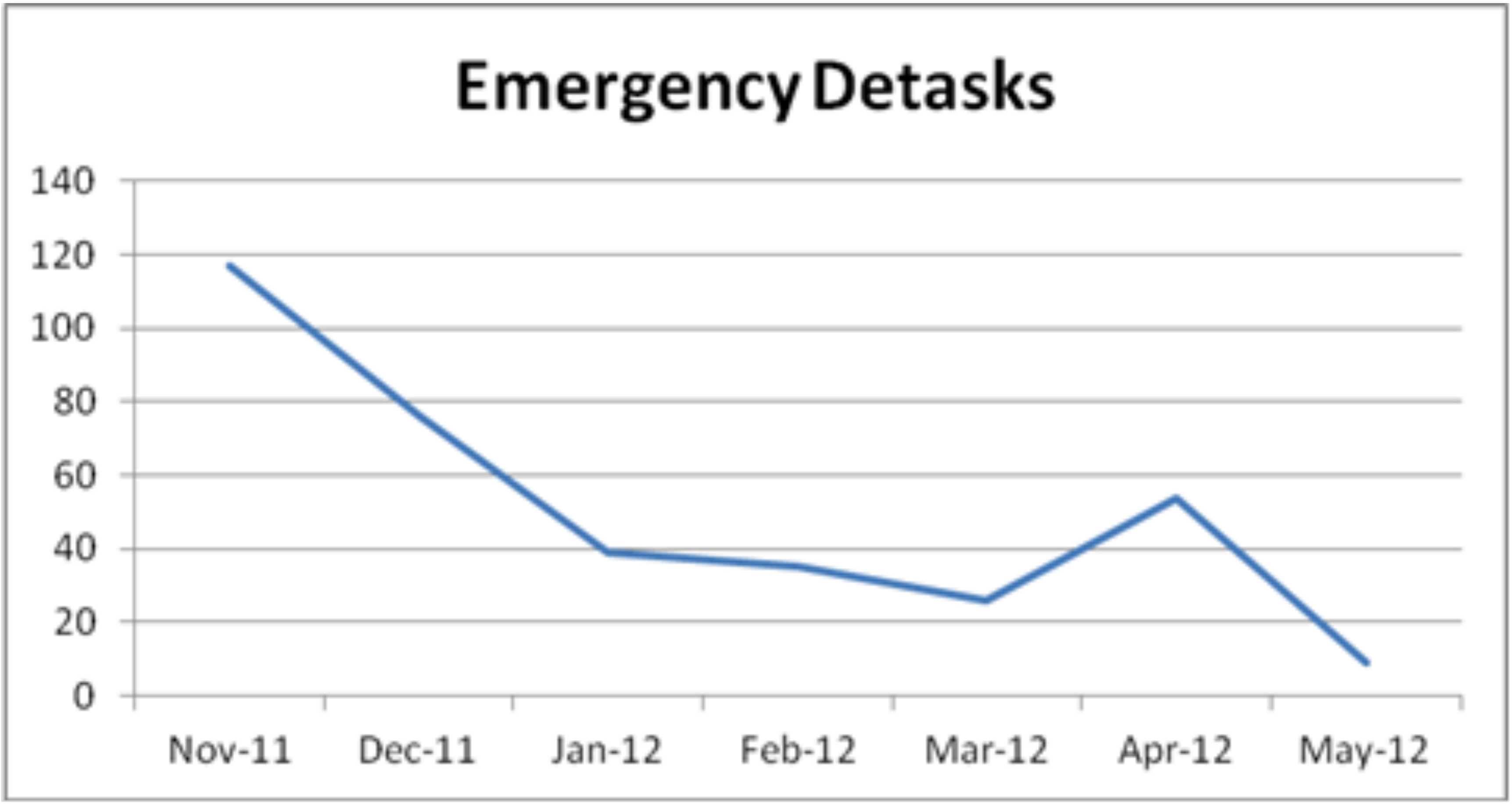


Address Books



TOP SECRET//SI//NOFORN

Selector Detasks



TOP SECRET//SI//NOFORN

So What?

- Store less of the wrong data
  - 20% reduction (so far) in content to long-term repositories
  - Data still resides at site for SIGDEV
- Increase data variety
  - Hole left by “wrong data” filled with more “right data”
  - More signals and case notations can be tasked at site
- Shifting collection philosophy at NSA
  - “Memorialize what you need” versus “Order one of everything off the menu and eat what you want”

WIKI: https://wiki.nsa.ic.gov/wiki/Collection_Optimization

XKEYSCORE: fingerprint/defeats/atrouter and fingerprint/defeats/atxks